

AgroLiquid Starter Fertilizer FurrowJet™ Study

Objective: To evaluate the yield and net return of a blend of AgroLiquid starter fertilizers (Table 1). The following products are used in this in-furrow study as a single at-plant application:

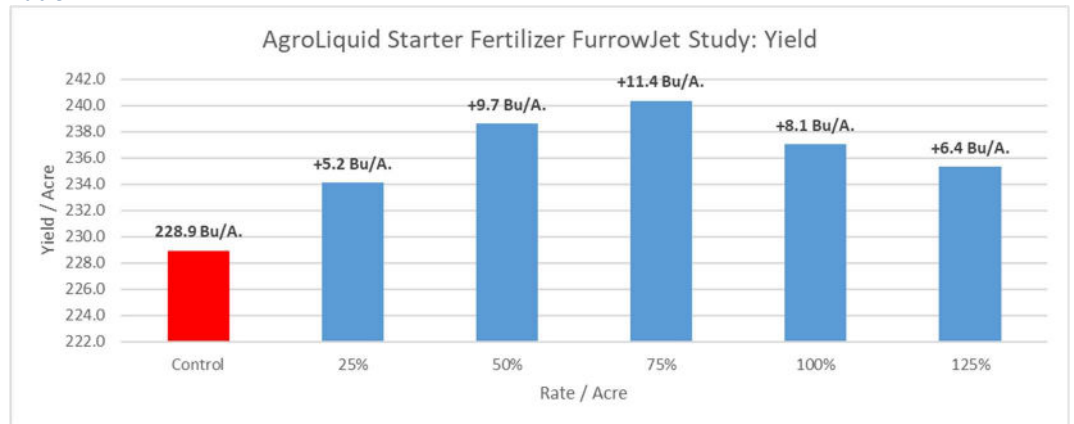


Table 1.

Product	Application
2 Gal Pro-Germinator® 9-24-3	FurrowJet
6 Gal Kalibrate™ 2-1-6	FurrowJet
3 Qt Micro 500™ .02B-.25Cu-.37Fe-1.2Mn-1.8Zn	FurrowJet
1 Qt C-Tech® Hydrophobic Fulvic Acid	FurrowJet
2 Gal accesS® 7-0-0-17S-.25Fe-.05Mn-.05Zn	Conceal
2pt Boron	Conceal

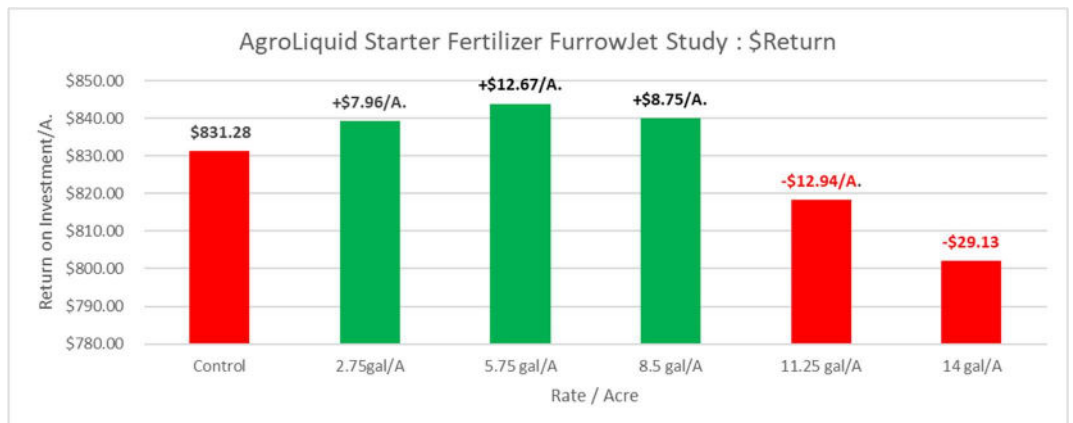
Results: The 75% rate achieved agronomic optimum yield at 240.3 Bu/A., 11.4 Bu/A. over the untreated control. In general, all applied rates offered positive yield response but yield rose to the 75% rate and then decreased as rates were applied up to 100% and 125% rates (Table2).

Table 2



Economic optimum rate was achieved at the 25% rate with a net return of +\$0.63/A. Each rate from 50%-125% suffered economic losses ranging from **-\$2.66 to -\$66.46/A.** (Table 3).

Table 3



Planting Date: 5/10 Hybrid: DKC 63-21SS Population: 36K Row Width: 30" Rotation: CAB Corn Price: \$3.50

Fertilizer Pricing: \$30/A DAP Re-allocation Pro-Germinator \$5.80/Gal, Kalibrate \$5.70/Gal, Micro500 \$8.25/Gal, C-Tech \$24/Gal, AccesS \$4.40/Gal

Corn Summary of 2018 FurrowJet® Applications:

Agronomic Optimum			Economic Optimum		
Product:	Rate/A.	+/- Yield	Rate/A.	Net \$	Classification
Nachurs imPulse®	6gal/A.	+12.1Bu/A.	2gal/A.	+\$18.47	Starter
AgroLiquid	8.5gal/A.	+11.4Bu/A.	5.5gal/A.	+\$12.67	Starter
Concept Ag Total-Phos®	4gal/A.	+9.5Bu/A.	3gal/A.	+\$11.85	Starter/Biological
Capture® LFR®	4oz/A.	+5.8Bu/A.	4oz/A.	+\$11.68	Insecticide
Marco QuickGrow™ LTE	8gal/A.	+11.1Bu/A.	8gal/A.	+\$11.53	Starter
Helena Nucleus® HP	6gal/A.	+11.8Bu/A.	3gal/A.	+\$9.95	Starter
Ethos™ XB	8.5oz/A.	+8.1Bu/A.	0.5oz/A.	+\$8.03	Insecticide/Fungicide
Levesol™ Zinc	12gal/A.	+6.3Bu/A.	12gal/A.	+\$7.07	Starter
Helena Nucleus® O-Phos	4gal/A.	+11.2Bu/A.	3gal/A.	+\$6.49	Starter
SabrEx™/Excellorate™	5oz/A.	+4.8Bu/A.	5oz/A.	+\$6.43	Biological
Manticor™ LFR®	9.5oz/A.	+5.6Bu/A.	9.5oz/A.	+\$3.39	Fungicide
10-34-0	6gal/A.	+3.9Bu/A.	4gal/A.	+\$0.47	Starter
Xanthion®	7.2oz/A.	+3Bu/A.	7.2oz/A.	-\$0.94	Fungicide
Temetry™ LFR®	9.5oz/A.	+4.1Bu/A.	9.5oz/A.	-\$1.98	Insecticide/Fungicide
Paralign™	3gal/A.	+7.2Bu/A.	3gal/A.	-\$2.92	Starter
Conklin	12gal/A.	+13.5Bu/A.	3gal/A.	-\$5.03	Starter
TopGuard Terra®	3oz/A.	+3.2Bu/A.	3oz/A.	-\$5.21	Fungicide

Planting Date: 5/6 Hybrid: DKC 63-21SS Population: 36K Row Width: 30" Rotation: CAB Corn Price: \$3.50

SabrEx: \$5.85/A Excellorate: \$1.10/oz